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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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First Named Inventor:	Matthew P. Dugas	
Appln. No.:	10/685,289	Confirmation No.: 9823
Filing Date:	October 14, 2003	Examiner: Samuel P. Siefke
Title:	SOLID STATE MEMBRANE CHANNEL DEVICE FOR THE MEASUREMENT AND CHARACTERIZATION OF ATOMIC AND MOLECULAR SIZED SAMPLES	Group Art Unit: 1743

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**AMENDMENT AND RESPONSE UNDER 37 C.F.R. 1.111**

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In response to the Office Action of October 18, 2006, please amend the above-identified application as follows:

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks** begin on page 6 of this paper.